



<b>Substitute for form 1449A/PTO (Modified)</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/714,489	
			Filing Date	November 14, 2003	
			First Named Inventor	DUONG, Hau	
			Art Unit	1634	
			Examiner Name	LU, Frank Wei Min	
Sheet	1	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>W</i>	A1	4,704,193	11-03-1987	Bowers et al.	
	A2	4,707,352	11-17-1987	Stavrianopoulos	
	A3	4,707,440	11-17-1987	Stavrianopoulos	
	A4	4,711,955	12-08-1987	Ward et al.	
	A5	4,755,458	07-55-1988	Rabbani et al.	
	A6	4,787,963	11-29-1988	MacConnell	
	A7	4,840,893	06-20-1989	Hill et al.	
	A8	4,849,513	07-18-1989	Smith et al.	
	A9	4,868,103	09-19-1989	Stavrianopoulos et al.	
	A10	4,882,013	11-21-1989	Turner et al.	
	A11	4,894,325	01-16-1990	Englehardt et al.	
	A12	4,943,523	07-24-1990	Stavrianopoulos	
	A13	4,945,045	07-24-1984	Forrest et al.	
	A14	4,952,685	08-28-1990	Stavrianopoulos	
	A15	4,964,972	10-23-1990	Sagiv et al.	
	A16	4,994,373	02-19-1991	Stavrianopoulos	
	A17	5,002,885	33-26-1991	Stavrianopoulos	
	A18	5,013,831	05-07-1991	Stavrianopoulos	
	A19	5,066,372	11-19-1991	Weetall	
	A20	5,082,830	01-21-1992	Brakel et al.	
	A21	5,089,112	02-18-1992	Skotheim et al.	
	A22	5,175,269	12-29-1992	Stavrianopoulos	
	A23	5,180,968	01-19-1993	Bruckenstein et al.	
	A24	5,241,060	8-31-1993	Englehardt et al.	
	A25	5,242,828	09-07-1993	Bergstrom et al.	
<i>✓</i>	A26	5,278,043	01-11-1995	Bannwarth et al.	

Examiner Signature	<i>Frank Wei Min</i>	Date Considered	8/21/2006
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>lu</i>	A27	5,312,527	05-17-1994	Mikkelsen et al.	
	A28	5,328,824	07-12-1994	Ward et al.	
	A29	5,356,786	10-18-1994	Heller et al.	
	A30	5,391,272	02-21-1995	O'Daly et al.	
	A31	5,403,451	04-04-1995	Rivello et al.	
	A32	5,436,161	07-25-1995	Bergstrom et al.	
	A33	5,443,701	08-22-1995	Willner et al.	
	A34	5,449,767	09-12-1995	Ward et al.	
	A35	5,472,881	12-05-1995	Beebe et al.	
	A36	5,476,928	12-19-1995	Ward et al.	
	A37	5,495,908	01-21-1997	Fawcett et al.	
	A38	5,552,270	09-03-1996	Khrapko et al.	
	A39	5,565,552	10-15-1996	Magda et al.	
	A40	5,571,568	11-05-1996	Ribi et al.	
	A41	5,573,906	11-12-1996	Bannwarth et al.	
	A42	5,591,578	01-07-1997	Meade et al.	
	A43	5,601,982	02-11-1997	Sargent et al.	
	A44	5,620,850	04-15-1997	Bamdad et al.	
	A45	5,622,821	04-22-1997	Selvin et al.	
	A46	5,632,957	05-27-1997	Heller et al.	
	A47	5,650,061	07-22-1997	Kuhr et al.	
	A48	5,700,667	12-23-1997	Marble et al.	
	A49	5,705,346	01-06-1998	Okamoto et al.	
	A50	5,705,348	01-06-1998	Meade et al.	
	A51	5,741,700	04-01-1998	Ershov et al.	
✓	A52	5,756,050	05-26-1998	Ershov et al.	

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<i>[Signature]</i>	A53	5,770,369	06-23-1998	Meade et al.	<i>[Handwritten line]</i>
	A54	5,770,721	06-23-1998	Ershov et al.	<i>[Handwritten line]</i>
	A55	5,776,672	07-07-1998	Hashimoto et al.	<i>[Handwritten line]</i>
	A56	5,780,234	07-14-1998	Meade et al.	<i>[Handwritten line]</i>
	A57	5,795,453	08-18-1998	Gilmartin	<i>[Handwritten line]</i>
	A58	5,824,473	10-20-1998	Meade et al.	<i>[Handwritten line]</i>
	A59	5,837,859	11-17-1998	Teoule et al.	<i>[Handwritten line]</i>
	A60	5,849,486	12-15-1998	Heller et al.	<i>[Handwritten line]</i>
	A61	5,851,772	12-15-1998	Mirzabekov et al.	<i>[Handwritten line]</i>
	A62	5,874,046	02-23-1999	Megerle	<i>[Handwritten line]</i>
	A63	5,952,172	09-14-1999	Meade et al.	<i>[Handwritten line]</i>
	A64	5,976,802	11-02-1999	Ansorge et al.	<i>[Handwritten line]</i>
	A65	6,013,170	01-11-2000	Meade	<i>[Handwritten line]</i>
	A66	6,013,459	01-11-2000	Meade	<i>[Handwritten line]</i>
	A67	6,060,023	05-09-2000	Maracas	<i>[Handwritten line]</i>
	A68	6,060,327	05-09-2000	Keen	<i>[Handwritten line]</i>
	A69	6,071,699	06-06-2000	Meade et al.	<i>[Handwritten line]</i>
	A70	6,087,100	07-11-2000	Meade et al.	<i>[Handwritten line]</i>
	A71	6,090,933	07-18-2000	Kayyem et al.	<i>[Handwritten line]</i>
	A72	6,096,273	08-01-2000	Kayyem et al.	<i>[Handwritten line]</i>
	A73	6,096,825	08-01-2000	Gamler et al.	<i>[Handwritten line]</i>
	A74	6,107,080	08-22-2000	Lennox	<i>[Handwritten line]</i>
	A75	6,153,737	11-28-2000	Manoharan et al.	<i>[Handwritten line]</i>
	A76	6,177,250 B1	01-23-2001	Meade et al.	<i>[Handwritten line]</i>
	A77	6,180,352 B1	01-30-2001	Meade et al.	<i>[Handwritten line]</i>
	A78	6,197,515 B1	03-06-2001	Bamdad et al.	<i>[Handwritten line]</i>
✓	A79	6,200,761 B1	03-13-2001	Meade et al.	<i>[Handwritten line]</i>

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u	A80	6,203,758 B1	03-20-2001	Marks et al.	
	A81	6,207,369 B1	03-27-2001	Wohlstadter et al.	
	A82	6,221,583 B1	04-24-2001	Kayyem et al.	
	A83	6,232,062 B1	05-15-2001	Kayyem et al.	
	A84	6,238,870 B1	05-29-2001	Meade et al.	
	A85	6,248,229 B1	06-19-2001	Meade	
	A86	6,258,545 B1	07-10-2001	Meade et al.	
	A87	6,264,825 B1	07-24-2001	Blackburn et al.	
	A88	6,268,149 B1	07-31-2001	Meade et al.	
	A89	6,268,150 B1	07-31-2001	Meade et al.	
	A90	6,277,576 B1	08-21-2001	Meade et al.	
	A91	6,290,839 B1	09-18-2001	Kayyem et al.	
	A92	6,306,584 B1	10-23-2001	Bamdad	
	A93	6,322,979 B1	11-27-2001	Bamdad et al.	
	A94	6,479,240 B1	11-12-2002	Kayyem	
	A95	6,495,323 B1	12-17-2002	Kayyem et al.	
	u	A96	6,686,150 B1	02-03-2004	Blackburn et al.
A97		6,740,518 B1	05-24-2004	Duong et al.	
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A99		6,977,151 B2	12-20-2005	Kayyem et al.	
A100		7,014,992 B1	03-21-2006	Kayyem et al.	
A101		7,018,523 B2	03-28-2006	Meade	
A102		2001-0034033 A1	10-25-2001	Meade et al.	
A103		2001-0046679 A1	11-15-2001	Meade et al.	
A104		2002-0006643 A1	01-17-2002	Kayyem et al.	
A105		2003-0148328 A1	08-07-2003	Kayyem et al.	
A106		2003-0150723 A1	08-14-2003	Kayyem et al.	
A107		2004-0010890 A1	05-27-2004	Meade et al.	
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<i>[Signature]</i>	A108	2005-0003399 A1	01-06-2005	Blackburn et al.	
<i>[Signature]</i>	A109	2005-0053962 A1	03-10-2005	Irvine et al.	

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<i>[Signature]</i>	B1	CA 2,090,904	09-24-1993	Hoffman LaRoche		
	B2	EP 0 229 943 A1	07-29-1987	Molecular Biosystems, Inc.		
	B3	EP 0 234 938 A2	02-26-1987	Cranfield Institute of Technology		
	B4	EP 0 599 337 A1	01-16-1994	Canon K.K.		
	B5	EP 0 063 879 A1	11-03-1982	Yale University		
	B6	EP 0 668 502 A2	08-23-1995	Yissum Research Development		
	B7	EP 0 515 615 A1	09-04-1996	Boehringer Mannheim		
	B8	JP 63-238166	10-04-1988	Mitsubishi Chemical, Ltd.		
	B9	JP 6-041183	02-15-1994	Mitsubishi Chemical, Ltd.		
	B10	WO 86/05815 A1	10-09-1986	Genetics International, Inc.		
	B11	WO 90/05303 A1	05-17-1990	Pharmacia AB		
	B12	WO 90/05732 A1	05-31-1990	The Trustees of Columbia University in the City of New York		
	B13	WO 92/10757 A1	06-25-1992	Boehringer Mannheim		
	B14	WO 93/10267 A1	05-27-1993	Igen, Inc.		
	B15	WO 93/22678 A2/A3	11-11-1993	Massachusetts Institute of Technology		
	B16	WO 93/23425 A1	11-25-1993	The Ontario Cancer Institute		
	B17	WO 94/22889 A1	10-13-1994	Cis Bio International		
	B18	WO 95/15971 A2/A3	06-15-1995	California Institute of Technology		
<i>[Signature]</i>	B19	WO 96/40712 A1	12-19-1996	California Institute of Technology		

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<i>lu</i>	B20	WO 97/01646 A1	01-16-1997	University of North Carolina		
	B21	WO 97/27329 A1	07-31-1997	University of North Carolina		
	B22	WO 97/31256 A1	08-28-1997	Comell Research Foundation		
	B23	WO 97/41425 A1	11-06-1997	Pence, Inc.		
	B24	WO 97/44651 A1	11-27-1997	Australia Membrane and Biotechnology Institute		
	B25	WO 97/46568 A1	12-11-1997	California Institute of Technology		
	B26	WO 98/12539 A1	03-26-1998	Meso Scale Technologies, LLC		
	B27	WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		
	B28	WO 98/27229 A1	06-25-1998	The University of Chicago		
	B29	WO 98/28444 A2/A3	07-02-1998	The University of Chicago		
	B30	WO 98/31839 A2/A3	07-23-1998	President & Fellows of Harvard College		
	B31	WO 98/35232 A2/A3	08-13-1998	University of North Carolina at Chapel Hill		
	B32	WO 98/51823 A1	11-19-1998	Mosaic Technologies LLC		
	B33	WO 98/57158 A1	12-17-1998	Clinical Micro Sensors, Inc.		
	B34	WO 98/57159 A1	12-17-1998	Clinical Micro Sensors, Inc.		
	B35	WO 99/14596 A1	03-25-1999	AB Sangtec Medical		
	B36	WO 99/29711 A1	06-17-1999	Nanogen Inc.		
	B37	WO 99/37819 A2/A3	07-08-1999	Clinical Micro Sensors, Inc.		
	B38	WO 99/57317 A2/A3	11-11-1999	Clinical Micro Sensors, Inc.		
	B39	WO 99/57319 A2/A3	11-11-1999	Clinical Micro Sensors, Inc.		
<i>✓</i>	B40	WO 99/67425 A2/A3	12-29-1999	Clinical Micro Sensors, Inc.		

Examiner Signature	<i>lu</i>	Date Considered	8/21/2006
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Substitute for form 1449A/PTO (Modified)				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10714,489
				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	7	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
<i>u</i>	C1	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).		
	C2	ALBERS, W., et al., "Design of novel molecular wires for realizing long-distance electron transfer," <i>Bioelectrochem. Bioenerg.</i> 42(1):25-33 (Apr. 1997).		
	C3	ALLEMAN, K.S., et al., "Electrochemical rectification at a monolayer-modified electrode," <i>J. Phys. Chem.</i> 100:17050-17058 (1996).		
	C4	ARKIN, M., et al., "Evidence for photoelectron transfer through DNA intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).		
	C5	BAIN, C., et al., "Formation of monolayers by the coadsorption of thiols on gold: variation in the length of the alkyl chain," <i>J. Am. Chem. Soc.</i> 111(18):7164-7175 (Aug. 1989).		
	C6	BAMDAD, C., "A DNA self-assembled monolayer for the specific attachment of unmodified double or single stranded DNA," <i>Biophys. J.</i> 75:1997-2003 (Oct. 1988).		
	C7	BARISCI, J.N., et al., "Conducting Polymer Sensors," <i>Trends Biotechnol.</i> 4(9):307-311 (Sep. 1996).		
	C8	BAUM, R. M., "Views on biological, long-range electron transfer stir debate," <i>Chem. Eng. News</i> , pp 20-23 (1993).		
	C9	BEATTIE, K., et al., "Genosensor Technology," <i>Clin. Chem.</i> 39(4):719-722 (1993).		
	C10	BECHTOLD, R., et al., "Ruthenium-modified horse heart cytochrome c: effect of pH and ligation on the rate of intramolecular electron transfer between ruthenium(II) and heme(III)," <i>J. Phys. Chem.</i> 90(16):3800-3804 (Jul. 1986).		
	C11	BIDAN, G., "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review," <i>Sens. Actuators B</i> 6:45-56 (1992).		
	C12	BLONDER, R., et al., "Three-dimensional redox-active layered composites of Au-Au, Ag-Ag, and Au-Ag colloids," <i>Chem. Commun.</i> 13:1393-1394 (1998).		
	C13	BOGUSLAVSKY, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> 60:189-197 (1993).		
	C14	BOWLER, B.E., et al., "Long-range electron transfer in donor (spacer) acceptor molecules and proteins," <i>Prog. Inorg. Chem. Bioinorg. Chem.</i> 38:259-322 (1990).		
	C15	BRODOLIN, K., et al., "Conformational changes in <i>E. coli</i> RNA polymerase during promoter recognition," <i>Nucleic Acids Res.</i> 24(24):5748-5753 (Dec. 1993).		
	C16	BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).		
✓	C17	BUMM, L.A., et al., "Are single molecular wires conducting?," <i>Science</i> 271(5226):1705-1707 (Mar. 1996).		

Examiner Signature	<i>[Signature]</i>	Date Considered	8/21/2006
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/714,489
				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	8	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

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	C18	CANTOR, C.R., et al., "Report on the sequencing by hybridization workshop," <i>Genomics</i> 13(4):1378-1383 (Aug. 1992).	✓	
	C19	CARR, J., et al., "Novel electrochemical sensors for neutral molecules," <i>Chem. Commun.</i> 1649-1650 (1997).	✓	
	C20	CARTER, M., et al., "Voltammetric studies of the interaction of metal chelates with DNA. 2. Tris-chelated complexes of cobalt(III) and iron(II) with 10-phenanthroline and 2,2'-bipyridine," <i>J. Am. Chem. Soc.</i> 111(24):8901-8911 (Nov. 1989).	✓	
	C21	CHANG, I-Jy, et al., "High-driving-force electron transfer in metalloproteins: Intramolecular oxidation of ferrocyanochrome c by Ru(2,2'-bpy) <sub>2</sub> (im)(His-33) <sup>3+</sup> ," <i>J. Am. Chem. Soc.</i> 113(18):7056-7057 (Aug. 1991).	✓	
	C22	CHEEVER, E., et al., "Fast Fourier transform-based correlation of DNA sequences using complex plane encoding," <i>Comput. Appl. Biosci.</i> 7(2):143-154 (Apr. 1991).	✓	
	C23	CHIDSEY, C., et al., "Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold" electroactive self-assembled monolayers," <i>J. Am. Chem. Soc.</i> 112(11):4301-4306 (May 1990).	✓	
	C24	CHIDSEY, C., et al., "Free energy and temperature dependence of electron transfer at the metal electrolyte interface," <i>Science</i> 251:919-923 (1991).	✓	
	C25	CHRISEY, C., et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Res.</i> 24(15):3031-3039 (1996).	✓	
	C26	CLERY, D., "DNA Goes Electric," <i>Science</i> 267(5202):1270 (Mar. 1995).	✓	
	C27	DAVIS, L.M., et al., "Electron donor properties of the antitumour drug amsacrine as studied by fluorescence quenching of DNA-bound ethidium," <i>Chem.-Biol. Interact.</i> 62:45-58 (1987).	✓	
	C28	DAVIS, L.M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).	✓	
	C29	DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes. 2. Methods for bonding electron-transfer relays to glucose oxidase and d-amino-acid oxidase," <i>J. Am. Chem. Soc.</i> 110(1):2615-2620 (Jan. 1988).	✓	
	C30	DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes. 1. Electron transfer from glucose oxidase to metal electrodes via electron relays, bound covalently to the enzyme," <i>J. Phys. Chem.</i> 91(6):1285-1288 (1987).	✓	
	C31	DEGANI, Y., et al., "Electrical communication between redox centers of glucose oxidase and electrodes via electrostatically and covalently bound redox polymers," <i>J. Am. Chem. Soc.</i> 111(6):2357-2358 (Mar. 1989).	✓	
	C32	DEINHAMMER, R.S., et al., "Electrochemical oxidation of amine-containing compounds: a route to the surface modification of glassy carbon electrodes," <i>Langmuir</i> 10(4):1306-1313 (Apr. 1994).	✓	
✓	C33	DONTA, N., et al., "Generation of biotin/avidin/enzyme nanostructures with maskless photolithography," <i>Anal. Chem.</i> 69(14):2619-2625 (Jul. 1997).	✓	

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
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				Application Number	10/714,489
				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	9	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

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	C34	DREYER, G.B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> 82(4):968-972 (Feb. 1985).		✓
	C35	DROBYSHEV, A., et al., "Sequence analysis by hybridization with oligonucleotide microchip: Identification of $\beta$ -thalassemia mutations," <i>Gene</i> 188(1):45-52 (Mar. 1997).		✓
	C36	DURHAM, B., et al., "Electron-transfer kinetics of singly labeled ruthenium(ii) polypyridine cytochrome c derivatives," <i>Adv. Chem. Ser.</i> 226:181-193 (1990).		✓
	C37	DURHAM, B., et al., "Photoinduced electron-transfer kinetics of singly labeled ruthenium bis(bipyridin) dicarboxybipyridine cytochrome c derivatives," <i>Biochemistry</i> 28(21):8659-8665 (Oct. 1989).		✓
	C38	ELGHANIAN, R., et al., "Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles," <i>Science</i> 277(5329):1078-1081 (Aug. 1997).		✓
	C39	ELIAS, H., et al., "Electron-transfer kinetics of Zn-substituted cytochrome c and its Ru(NH <sub>3</sub> ) <sub>5</sub> (histidine-33) derivative," <i>J. Am. Chem. Soc.</i> 110:429-434 (1988).		✓
	C40	ESIPOVA, N., et al., "Investigation of sites of strong DNA-protein interactions in DNA-binding proteins by theoretical and DNA-protein cross-linking methods," <i>J. Biomol. Struct. Dynam.</i> 12(6):A049 (Jun. 1995).		✓
	C41	FARVER, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> 86(18):6968-6972 (Sep. 1989).		✓
	C42	FOTIN, A., et al., "Parallel thermodynamic analysis of duplexes on oligodeoxynucleotide microchips," <i>Nucleic Acids Res.</i> 216(6):1515-1521 (Mar. 1998).		✓
	C43	FOX, L.S., et al., "Gaussian free-energy dependence of electron-transfer rates in iridium complexes," <i>Science</i> 247(4960):1069-1071 (Mar. 1990).		✓
	C44	FOX, M.A., et al., "Light-Harvesting Polymer Systems," <i>Chem. Eng. News</i> , pp. 38-48 (March 15, 1993).		✓
	C45	FRANÇOIS, J.-C., et al., "Periodic cleavage of poly(dA) by oligothymidylates covalently linked to the 1,10-phenanthroline-copper complex," <i>Biochemistry</i> 27:2272-2276 (1988).		✓
	C46	FRIEDMAN, A., et al., "Molecular 'light switch' for DNA: Ru(bpy) <sub>3</sub> (dppz) <sup>2+</sup> ," <i>J. Am. Chem. Soc.</i> 112(12):4960-4962 (Jun. 1990).		✓
	C47	FROMHERZ, P., et al., "Photoinduced electron transfer in DNA matrix from intercalated ethidium to condensed methylviologen," <i>J. Am. Chem. Soc.</i> 108(17):5361-5362 (Aug. 1986).		✓
	C48	GARDNER, J., et al., "Application of conducting polymer technology in microsystems," <i>Sens. Actuators A</i> 51(1):57-66 (Oct. 1995).		✓
✓	C49	GLOVER, D., et al., "Alternating current polarography in the harmonic multiplex mode," <i>Anal. Chem.</i> 45(11):1869-1877 (Sep. 1973).		✓

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<i>u</i>	C50	GREGG, B.A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62(3):258-263 (Feb. 1990).	✓	
	C51	GREGG, B.A., et al., "Redox polymer films containing enzymes. 1. A redox-conducting epoxy cement: synthesis, characterization, and electrocatalytic oxidation of hydroquinone," <i>J. Phys. Chem.</i> 95(15):5970-5975 (Jul. 1991).	✓	
	C52	GUSCHIN, D., et al., "Manual manufacturing of oligonucleotide, DNA, and protein microchips," <i>Anal. Biochem.</i> 250(2):203-211 (Aug. 1997).	✓	
	C53	GUSCHIN, D., et al., "Oligonucleotide microchips as genosensors for determinative and environmental studies in microbiology," <i>Appl. Env. Microbiol.</i> 63(6):2397-2402 (Jun. 1997).	✓	
	C54	HASHIMOTO, K., et al., "Sequence-specific gene detection with a gold electrode modified with dna probes and an electrochemically active dye," <i>Anal. Chem.</i> 66(21):3830-3833 Nov. (1994).	✓	
	C55	HEGNER, M., et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS Lett.</i> 336(3):452-456 (Dec. 1993).	✓	
	C56	HELLER, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i> , 23(5):128-134 (May 1990).	✓	
	C57	HELLER, A., et al., "Amperometric biosensors based on three-dimensional hydrogel-forming epoxy networks," <i>Sens. Actuators</i> 13-14:180-183 (1993).	✓	
	C58	HOBBS, J., et al., "Polynucleotides containing 2'-amino-2'-deoxyribose and 2'-azido-2'-deoxyribose," <i>Biochemistry</i> 12(25):5138-5145 (Dec. 1973).	✓	
	C59	HSUNG, R., et al., "Synthesis and characterization of unsymmetric ferrocene-terminated phenylethynyl oligomers," <i>Organometallics</i> , 14(10):4808-4815 (Oct. 1995).	✓	
	C60	HSUNG, R., et al., "Thiophenol protecting groups for the palladium-catalyzed heck reaction: efficient syntheses of conjugated arylthiols," <i>Tetrahedron Lett.</i> 36(26):4525-4528 (Jun. 1995).	✓	
	C61	IHARA, T., et al., "Gene sensor using ferrocenyl oligonucleotide," <i>Chem. Commun.</i> 17:1609-1610 (1997).	✓	
	C62	JENKINS, Y., et al., "A Sequence-specific molecular light switch: tethering of an oligonucleotide to a dipyrrophenazine complex of ruthenium (II), <i>J. Am. Chem. Soc.</i> 114(22):8736-8738 (Oct. 1992).	✓	
	C63	JOHNSTON, D., et al., "Trans-dioxorhenium(v)-mediated electrocatalytic oxidation of DNA at indium tin-oxide electrodes: voltammetric detection of DNA cleavage in solution," <i>Inorg. Chem.</i> 33:6388-6390 (1994).	✓	
	C64	KAMAT, P., et al., "Photochemistry on surfaces: 2. Intramolecular electron transfer on colloidal alumina-coated silica particles," <i>J. Phys. Chem.</i> 93(4):1405-1409 (Feb. 1989).	✓	
✓	C65	KATRITZKY, A., et al., "Pyridylethylation - a new protection method for active hydrogen compounds," <i>Tetrahedron Lett.</i> 25(12):1223-1226 (1984).	✓	

Examiner Signature	<i>Frank Wei Min Lu</i>	Date Considered	8/11/2006
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Substitute for form 1449A/PTO (Modified)				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10714,489
				Filing Date	November 14, 2003
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
Sheet	11	of	15	Attorney Docket Number	A-65686-2 (463037-00268)

NON PATENT LITERATURE DOCUMENTS					
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	C66	KELLY, S.O., et al., "Electrochemistry of methylene blue bound to a DNA-modified electrode," <i>Bioconjugate Chem.</i> 8:31-37 (1997).			✓
	C67	KOJIMA, H., et al., "A DNA probe of ruthenium bipyridine complex using photocatalytic activity," <i>Chem. Lett.</i> 18:1889-1982 (1989).			✓
	C68	KORRI-YOISSOUFI, H., et al., "Toward bioelectronics: specific DNA recognition based on an oligonucleotide-functionalized polypyrrole," <i>J. Am. Chem. Soc.</i> 119(31):7388-7389 9 (Aug. 1997).			✓
	C69	LANGEN, R., et al., "Electron tunneling in proteins: coupling through a $\beta$ strand," <i>Science</i> 268(5218):1733-1735 (Jun. 1995).			✓
	C70	LAVIRON, E., "A.C. polarography and Faradaic Impedance of strongly adsorbed electroactive species. part I: theoretical and experimental study of a quasi-reversible reaction in the case of a Langmuir isotherm," <i>J. Electroanal. Chem.</i> 97(2):135-149 (Mar. 1979).			✓
	C71	LAVIRON, E., "A.C. polarography and Faradaic impedance of strongly adsorbed electroactive species. part III: theoretical complex plane analysis for a surface redox reaction," <i>J. Electroanal. Chem.</i> 105(1):35-42 (Dec. 1979).			✓
	C72	LEE, G., et al., "Direct measurement of the forces between complementary strands of DNA," <i>Science</i> 266(5186):771-773 (Nov. 1994).			✓
	C73	LENHARD, J.R., et al., "Part VII covalent bonding of a reversible- electrode reactant to pt electrodes using an organosilane reagent" <i>J. Electroanal. Chem.</i> 78(1):195-201 (May 1977).			✓
	C74	LINCOLN, P., et al., "Short circuiting the molecular wire: cooperative binding of $\Delta$ -[Ru(phen)2dppz]2+ and $\Delta$ -[Ru(phen)2bipy]3+ to DNA," <i>J. Am. Chem. Soc.</i> 119(6):1454-1455 (Feb. 1997).			✓
	C75	LIVSHITS, M., et al., "Theoretical analysis of the kinetics of DNA hybridization with gel-immobilized oligonucleotides," <i>Biophys. J.</i> 71:2795-2801 (Nov. 1996).			✓
	C76	MASKOS, U., et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Res.</i> 20(7):1679-1684 (Apr. 1992).			✓
	C77	MAZZOCCHI, P., et al., "Photolysis of N-(2-methyl-2-propenyl)phthalimide in methanol. evidence supporting radical-radical coupling of a photochemically generated radical ion pair," <i>J. Am. Chem. Soc.</i> 108(18):5361-5362 (Aug. 1986).			✓
	C78	McGEE, D., et al., "2'-amino-2'-deoxyuridine via an intramolecular cyclization of a trichloroacetimidate," <i>J. Org. Chem.</i> 61(2):781-785 (Jan. 1996).			✓
	C79	McGEE, D., et al., "Novel nucleosides via intramolecular functionalization of 2,2'-anhydrouridine derivatives," <i>Tetrahedron Lett.</i> 37(12):1995-1998 (Mar. 1996).			✓
✓	C80	MEADE, T., "Driving-force effects on the rate of long-range electron transfer in ruthenium-modified cytochrome c," <i>J. Am. Chem. Soc.</i> 111(12):4353-4356 (Jun. 1989).			✓

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<i>u</i>	C81	MEADE, T., et al., "Electron transfer through DNA: site-specific modification of duplex DNA with ruthenium donors and acceptors," <i>Angew Chem. Int. Ed. Engl.</i> 34(3):352 (Feb. 1995).			✓
	C82	MESTEL, R., "Electron Highway' Points to Identity of DNA," <i>New Scientist</i> 145(1967):21 (Mar. 1995).			✓
	C83	MILLAN, K., et al., "Covalent immobilization of DNA onto glassy carbon electrodes," <i>Electroanalysis</i> 4(10):929-932 (1992).			✓
	C84	MILLAN, K., et al., "Sequence-selective biosensor for dna based on electroactive hybridization indicators," <i>Anal. Chem.</i> 65(17):2317-2323 (Aug. 1993).			✓
	C85	MILLAN, K., et al., "Voltammetric DNA biosensor for cystic fibrosis based on a modified carbon paste electrode," <i>Anal. Chem.</i> 66(18):2943-2948 (Sep. 1994).			✓
	C86	MILLER, C., "Absorbed $\omega$ -hydroxy thiol monolayers on gold electrodes: evidence for electron tunneling to redox species in solution," <i>J. Phys. Chem.</i> 95:877-886 (1991).			✓
	C87	MIRKIN, C., et al., "A DNA-based method for rationally assembling nanoparticles into macroscopic materials," <i>Nature</i> 382(6592):607-609 (Aug. 1996).			✓
	C88	MIRZABEKOV, A., et al., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool," <i>Trends Biotechnol.</i> 12(1):27-32 (Jan. 1994).			✓
	C89	MITCHELL, G., et al., "Programmed assembly of DNA functionalized quantum dots," <i>J. Am. Chem. Soc.</i> 121(35):8122-8123 (Sep. 1998).			✓
	C90	MUCIC, R., et al., "DNA-directed synthesis of binary nanoparticle network materials," <i>J. Am. Chem. Soc.</i> 120(48):12674-12675 (Dec. 1998).			✓
	C91	MUCIC, R., et al., "Synthesis and characterization of DNA with ferrocenyl groups attached to their 5'-termini: electrochemical characterization of a redox-active nucleotide monolayer," <i>Chem. Commun.</i> 4:555-557 (1996).			✓
	C92	MURPHY, C. J., et al., "Long-range photoinduced electron transfer through a DNA helix," <i>Science</i> 262:1025-1029 (1993).			✓
	C93	NEDERLOF, P., et al., "Quantification of fluorescence in situ hybridization signals by image cytometry," <i>Cytometry</i> 13(8):846-852 (1992).			✓
	C94	ORELLANA, G., et al., "Photoinduced electron transfer quenching of excited Ru(II) polypyridyls bound to DNA: The role of the nucleic acid double helix," <i>Photochem. Photobiol.</i> 54(4):499-509 (Oct. 1991).			✓
	C95	PALEČEK, E., "From polarography of DNA to microanalysis with nucleic acid-modified electrodes," <i>Electroanalysis</i> 8(1):7-14 (Jan. 1996).			✓
✓	C96	PARINOV, S., "DNA Sequencing by hybridization to microchip octa- and decanucleotides extended by stacked pentanucleotides," <i>Nucleic Acids Res.</i> 24(15):2998-3004 (Aug. 1996).			✓

Examiner Signature	<i>Frank Wei Min Lu</i>	Date Considered	8/21/2006
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<i>[Signature]</i>	C97	PATERSON, D., "Electric genes: current flow in DNA could lead to faster genetic testing," <i>Sci. Am.</i> pp. 33-34 (May 1995).	✓	
	C98	PROUDNIKOV, D., "Immobilization of DNA in polyacrylamide gel for the manufacture of DNA and DNA-oligonucleotide microchips," <i>Anal. Biochem.</i> 259(1):34-41 (May 1998).	✓	
	C99	PROUDNIKOV, D., et al., "Chemical methods of DNA and RNA fluorescent labeling," <i>Nucleic Acids Res.</i> 24(22):4535-4542 (Nov. 1996).	✓	
	C100	PURUGGANAN, M.D., et al., "Accelerated electron transfer between metal complexes mediated by DNA," <i>Science</i> 241(4873):1645-1649 (Sep. 1988).	✓	
	C101	REIMERS, J.R., et al., "Toward efficient molecular wires and switches: the brooker ions," <i>Biosystems</i> 35:107-111 (1995).	✓	
	C102	RHODES, D., et al., "Helical periodicity of DNA determined by enzyme digestion," <i>Nature</i> 286(5773):573-578 (Aug. 1980).	✓	
	C103	RISSER, S. M., et al., "Electron transfer in DNA: Predictions of exponential growth and decay of coupling with donor-acceptor distance," <i>J. Am. Chem. Soc.</i> 115(6):2508-2510 (Oct. 1993).	✓	
	C104	SATO, Y., et al., "Unidirectional electron transfer at self-assembled monolayers of 11-ferrocenyl-1-undecanethiol on gold," <i>Bull. Chem. Soc. Jpn.</i> 66(4):1032-1037 (1993).	✓	
	C105	SATYANARAYANA, S., et al., "Neither Δ- nor Λ-Tris(phenanthroline)ruthenium(II) binds to DNA by classical intercalation," <i>Biochemistry</i> 31(39):9319-9324 (Oct. 1992).	✓	
	C106	SCHREIBER, A., et al., "Bis(purine) complexes of <i>trans</i> -a <sub>2</sub> p <sup>3</sup> : preparation and x-ray structures of bis(9-methyladenine) and mixed 9-methyladenine, 9-methylguanine complexes and chemistry relevant to metal-modified nucleobase triples and quartets," <i>J. Am. Chem. Soc.</i> 118(4):1244-1252 (1996).	✓	
	C107	SCHUHMANN, W., et al., "Electron transfer between glucose oxidase and electrodes via redox mediators bound with flexible chains to the enzyme surface," <i>J. Am. Chem. Soc.</i> 113(4):1394-1397 (Feb. 1991).	✓	
	C108	SCHUMM, J., et al., "Iterative divergent/convergent approach to linear conjugated oligomers by successive doubling of the molecular length: A rapid route to a 128 Å-long potential molecular wire," <i>Angew. Chem. Int. Ed. Engl.</i> 33(13):1360-1363 (Jul. 1994).	✓	
	C109	SIGAL, G., et al., "A Self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance," <i>Anal. Chem.</i> 68(3):490-497 (Feb. 1996).	✓	
	C110	SINGHAL, P., et al., "Direct electrochemical detection of purin and pyrimidine-based nucleotides with sinusoidal voltammetry," <i>Anal. Chem.</i> 69(17):3552-2557 (Sep. 1997).	✓	
✓	C111	SINGHAL, P., et al., "Sinusoidal voltammetry for the analysis of carbohydrates at copper electrodes," <i>Anal. Chem.</i> 69(8):1662-1668 (Apr. 1997).	✓	

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<i>u</i>	C112	SINGHAL, P., et al., "Ultrasensitive voltammetric detection of underivatized oligonucleotides and DNA," <i>Anal. Chem.</i> 69(23):4828-4832 (Dec. 1997).		
	C113	SLOOP, F., et al., "Metalloorganic labels for DNA sequencing and mapping," <i>N. J. Chem.</i> 18(3):317-326 (1994).		
	C114	SOUTHERN, E.M., et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," <i>Nucleic Acids Res.</i> 22(8):1368-1373 (Apr. 1994).		
	C115	STORHOFF, J., et al., "One-pot colorimetric differentiation of polynucleotides with single base imperfections using gold nanoparticles probes," <i>J. Am. Chem. Soc.</i> 120(9):1959-1964 (Mar. 1998).		
	C116	STROBEL, S., et al., "Site-specific cleavage of a yeast chromosome by oligonucleotide-directed triple-helix formation," <i>Science</i> 249(4964):73-75 (Jul. 1990).		
	C117	SU, H., et al., "Interfacial nucleic acid hybridization studied by random primer <sup>32</sup> P labelling and liquid-phase acoustic network analysis," <i>Anal. Chem.</i> 66(6):769-777 (Mar. 1994).		
	C118	TELSER, J., et al., "DNA duplexes covalently labeled at two sites: synthesis and characterization by steady-state and time-resolved optical spectroscopies," <i>J. Am. Chem. Soc.</i> 111(18):7226-7232 (Aug. 1989).		
	C119	TELSER, J., et al., "DNA oligomers and duplexes containing a covalently attached derivative of tris(2,2'-bipyridine)ruthenium(II): synthesis and characterization by thermodynamic and optical spectroscopic measurements," <i>J. Am. Chem. Soc.</i> 111(18):7221-7226 (Aug. 1989).		
	C120	TIMOFEEV, E., et al., "Methidium intercalator inserted into synthetic oligonucleotides," <i>Tetrahedron Lett.</i> 37(47):8467-8470 (Nov. 1996).		
	C121	TIMOFEEV, E., et al., "Regioselective immobilization of short oligonucleotides to acrylic copolymer gel," <i>Nucleic Acids Res.</i> 24(16):3142-3148 (Aug. 1996).		
	C122	TOUR, J., "Conjugated macromolecules of precise length and constitution. organic synthesis for the construction of nanoarchitectures," <i>Chem. Rev.</i> 96(1):537-553 (Feb. 1996).		
	C123	TOUR, J., et al., "Self-assembled monolayers and multilayers of conjugated thiols, $\alpha$ - $\omega$ -dithiols, and thioacetyl-containing adsorbates. Understanding attachments between potential molecular wires and gold surfaces," <i>J. Am. Chem. Soc.</i> 117(37):9529-9534 (Sep. 1995).		
	C124	TULLIUS, T.D., et al., "Iron(II) EDTA used to measure the helical twist along any DNA molecule," <i>Science</i> 230(4726):679-681 (Nov. 1985).		
	C125	TURRO, N., et al. "Photoelectron transfer between molecules adsorbed in restricted spaces," <i>Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf., 8<sup>th</sup> Conf.</i> 8:121-139 (1990).		
<i>✓</i>	C126	TURRO, N., et al., "Molecular recognition and chemistry in restricted reaction spaces. Photophysics and photoinduced electron transfer on the surfaces of micelles, dendrimers, and DNA," <i>Acc. Chem. Res.</i> 24(11):332-340 (Nov. 1991).		

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<i>[Signature]</i>	C127	UOSAKI, K., et al., "A self-assembled monolayer of ferrocenylalkane thiols on gold as an electron mediator for the reduction of Fe(III)-EDTA in solution," <i>Electrochim. Acta.</i> 36(11/12):1799-1801 (1991).		
	C128	VAN NESS, J., et al., "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays," <i>Nucleic Acids Res.</i> 19(12):3345-3349 (Jun. 1991).		
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